

New Convair-type Clippers* OF PAN AMERICAN WORLD AIRWAYS



Passengers who fly to Latin America along the routes of Pan American World Airways are enjoying the latest in flying luxury and mechanical excellence aboard the new Convair-240s. In keeping with such fine standards, the Pratt and Whitney engines of these new "flying clippers" are equipped with dependable BQ Spark Plugs. "Prade math. For America Identity, No., 1809

FOR AIRCRAFT ENGINES...AIRCRAFT SPARK PLUGS

THE BG CORPORATION

NEW YORK 19, N.Y.

SERVING WORLD AVIATION OVER THIRTY YEARS

Another MAJOR PRODUCT of our AIRCRAFT ACCESSORIES



a supply as the right are region of meet all new samilation, sefer and

turn, commercial and personal surreak. Our Aircraft Accessories Davings. booster puries during the war, and postwar types for all aiscraft applither are designed to handle all are nearlifed when specified

Our exceptive engineering and wars available to customers who are and other products of our Aircraft Accounting Division.









Why she's laughing over spilt milk

STELE med to mean big cleaning bills

cas be easily wiped up. Thorsush clean

PLEST IN BUREES



AIRCRAFT IGNITION SHIELDING

come easy to Titeflex engineers

VIATION

February 21, 1949

New Sidelights 7 New Products 28 News Digest 9 Sales & Service 28 Industry Observer 9 Arr Transport 32 Production in Ward New 66 Engineering 17 Letters 42

Robert F. Ben. Franker, Kebence Johnson Value Kreps Sections Mary Admit Admit Affrica Alexander McSerely . Sain & Secret M. Reiniger Address: Annexes Corder L. Marry Names Law Victoria Classift Miller Marry Robert McLarers - Dates to Sheler Navon - La Jasin Savannion Executive and Editorial Offices; 350 W. Sid St., New York M. N. Y., Flores Longston 4-Mill., National Faces Kidgs, Washington S. D. C., Pacas Norlocal 1814.

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Bone M. Kouer, Seefard S. Parker, Telling E. Bader, Eabert F. Univ.

I. G. Johnson, Francis Mongari, R. W. Martin, M., Salde Mongari, S. Springer, and S. Salder, M. S. Salder, Mongari, S. Salder, M. S. Salder, M. S. Salder, M. S. Salder, S. Sald Number of Associated Designar Places, Day, and the Artist Errors of Completion

AVIATION WEEK, Johnson 21, 1949.



A Great Petroleum Research Organization Testing . . . comparing . . . proving . . . over 2,000 trained netroleum Their poyer-ending research on petroleum products assures we

that Esso Aviation Products always must rigid specifications for highest quality and uniformity. Pfiers slong the arrange of the world look to the Esso weeped oval on the symbol of these standards carefully mumbased. During more than 60 years of experience in the sylvices

field. Esso has wen the respect of both great sixtees and private owners for quality, dependability



ESSO EXPORT COSPORATION, AVIATION DEPARTMENT, 25 REGAD STREET, NEW YORK 4, N. Y.

AVIATION WELK, February 21, 1949



You know that there can be no compromise with important consideration in aircraft construction 4 Gold televere. MONEL Lock Wine becomes and museumone. But you may not brow that MONEL* Lock Wire can five you extra safety indension when strate condition are satioquated If you were to lot the compension qualities of an ideal lock wire, you would probably for them bardes escensively, it will take a tight twest without in this order; resistance to pust and corrosion. beautiers, MONOXI, Loris Were also has both februar strength, best resistance, ductility, low cost, No.

reatter which of these qualities was consider most

emportant, you'll find them all in MONEL Lock

Look Wice, When it across, test it in your own sleep

Lock Was possessed the following features ... in-

1. Easternel, correspon resident, Berider heles 100% nutricial MONEY, Leek Wise is remarkably political

to both bet and cold correspon such as salt on water.

2 High Strangth MONEL Lock Ware is tougher and

ed, back-test available, and exhaust gover-

Wee

for agreeaft auplications:

executions are consisted to door MONEL door to from 25% to 25% few than other good author lock example "1267" MONET Lock Wire at no additrond cost "326" MONEL Lock Witt has all the other desirable features of regular MONEL, in addition to being non-marretic at most tempera.

Write on your company letterhead for your sagent's upool of MONEL Lock Wire today, Meanwhy not consult our Technical Service Depart-

stronger than steel at corresponding discreters. 2. Heat resistance. MONEL in one alloy that keeps at enest? There is no charge, of course. strength at elevated temperatures. It will not emberrie THE INTERNATIONAL NICKEL COMPANY, INC., 47 West Street, New York S. M. Y.

MONEL...far Minimum Maintenance AVIATION WEEK, February 22, 1969

NEWS SIDELIGHTS

Skycoach Raw

reflected extracts has resulted as the both vigoroes's perferred agrees

Nary Drive

The Seppose Polish New Learne has quetty approved a fee year \$500,000 and convenient amount for a burn and better givel arm. The program is

The publishy program, contemplet ing a \$100,000 expenditure a year, will be discord by Gol. E. Courtlands a vertice Moree Cope officer Among New Learn's long but of the ANC subrequester that were the collingua vice propiett at Western Electric who directed the Honor ration, perce to the passage of the 1945

Linkte Dimmed?

Administration's place to steamfaller a ows dope that system of high naturally original objective learning in softens ALPA submitted a manority report named in that more than one now causes on the Senore Enterstate and Forcess by Mine on your \$12 mallow worth of

Hel Davis a \$10,110-away close of high gear on its public defense of the Connect B36, amongment

last work as defense of the big nothing to see about its pleas to But ween to reprodu additional Meanwhile Convex in paretter values comparisons between the

ton use enduly handerspeed by CAS our of how money and filtered blobs to content to the 2500 wats of class light on dape lize hors.
At PA Periodent Dave Religate told

The "consister" new consists of Robert Klein, Jr., Weshington ethiosey The abstraction corrections will con-Arr Lesc Piots Assor has bosed a "size to push for separation of "subsistence It is not consulted to be serrorand field. Several bells to screengible

Someone Committee's coming artifus and Ed Sweeney, a exember of the

School of Low, specularry in avaisathe committee on aviston mallers, apunder the new chargements of Sca-CAA Smokescenen

outh and that father tests of the to which it has already invested millions. year school transpaints that "owns have affire the detailed data in support

Hausina Chill have there make 20 million parisht-

let week Astrone manufacturers marked what projection halted shough introove sovers of the reco-Plane and house making seguing radically different tooling and different

ALPA was critical of the someon in AVIATION WEEK, February 22, 1945

narco

VHF Communication

AERONAUTICAL

ORPORATION

AVIATION CALENDAR

Do 18-15-National Spiriteens Forth, Organ Quarte Printer July Surb. Fig. 10-cm-horid reproduced stripting conference Commission (60%; Zinthation

May 8 Servicy of Assessed to Evaluate and Service and Service and Contract to the Contract to Charten to Rose Companion, Saw York City May 18-12 Acres seeing of America.

nion marries, Note: Corper Ownsheld Nor 12-22A2 Africa fedien coun sir Complete Two-Way age, 13-15-deniety of Automotive East-more national organists and afterior next maxing. Mold New Yorks, New York.

Ago, \$1-12-Western Mate: Congress and Exposition reconcered by American Sections for Parties Section (1996, April 1998). It's evoluble now of on ratouchasely law arges! The eav Age 12 08-10-10-10-10-10-1 Acet, even spring morning Repressive Strain Etch. Name VMF Navigation Backley Age 10-11-ATER SHEWER BOOK DOT creft owners who per tribute Age 10 to Served Asset Chishron City Are the accounted by Obstruce City Alv Spew systemed by Obstruce City Chapter of Connecto. to the extreme simple its of its waterlighten and connection. It was April 18 12 - American Area, of Albert to may changed between 165 may and 122 mes. For eight thems. diel is often lighted with "Army Red giring to place illumination The VMf Nevication Iscente is encuered for come. May 19-21 - Dockey for Experimental Street Analysis spring making Batal Studie (servit, 1648) with the Name VQA-1 Con-Nor 23-04-About switting of the 20thserter. Appolishly with Norro Transmitter and Receiver with a EAS, Novel Association States, New York City Anny 19-19-ASSE, second population

HUTTER CARDIN

Why Are Edition All Tremmuneter Bulbs Better ?

· marries factor response namid figher openiting lempers

DESCRIPTION NAMED IN THOMAS A FOISON Incornerated

SWITCHES



In fastest-Persteen Our neithfur bern been used for years by he Write for cutalny tealer

DOMESTIC nounced plant for a departmental tern about 11 p.m. Stoce would indade Derrort Milamber Manageric St. Paul. Bellines and Socione. 14 CAR spectres, the new costs fare will be SOCIAL accurated to the country outs at

NEWS DIGEST

U. S. civil nigget employ 97,005 servedies to a Circl Acrossation Admini District some by state tabulation as all Oct. 1, 1945. Tabulation shows \$5.007 663 in Alsoka, 253 in Hewest and 75 to Corriction of Bossett E. Mcross. factor Air Facce major general, has

been upbeld by the U. S. Supreme Court, which relund to hor Mercer' A North American F-56, priored by Mr. Prock K. Downs, See the 1901

Col Rasco Terrer, Bre O. Housel

North American Aviation, Inc., re-ported profe of \$6,779,561 for fiscal year ended Sout 30, 1941, on sales of \$94,129,710 In the peaceding your, summary showed loss of \$28,765 on Pan American Alexant in negotialing with a group of banks for a \$20 mathen-less of credit, hubbling cost of the toron

amounting to \$10 william 50 febter almes, including Deltah Suit-Ferness delends ment Amour sed a Countrieton, in addition to DC-Is and a number of Noodaye AVIATION WHEE Palester 27 1949

INDUSTRY OBSERVER

Figures and Chance Variett will force in the next world saved would ettempts. Nery plans to use the Doughts Skyracket to becak the 672-ment around near held by the North Assessors Eddis H. surport since see approved the Chance Vesseld Cutton (AFFU-1) will then costs the a testically consumed E-SGA. New plans to horn plants well smaler their parkway speed using ant exough power to contextable crack the eld. seconds. If sectoried these preferences will best the official second to second 700 mph. PRopeble Assettes has completed in XESS, the suscessio were

capter with an assembly-tageted using and a combination of trade-yet and neglect resource. Build lend Build of Barb of the XFVI will be reade tone at Mount. P Although Cortes Weight Corp. denied Aristina Week's report of last P Although Cortee Weight Corp. denied Aristina Week's report of hell Sent. 15 that it was building a night regime to recove the Eed X-2 suggessonic consuch since a Curtas-Wright norm release dated Feb. 13 ensured that among the cability at "the Spire of Flight" will be one that "Bustains the top-seest Curlin-Wright engineered redet eighter which will some the Mr Proces sentimble X.2".

▶ Convent has a subcontract to make note assemblies for the Boring B 94A. McDonnell Aircraft reports its Bussiles producting met the New's

schedule at the end of 1948. Completion of the Navy outer for 235 Employe is whetherd for Iran VI. 1943. ►U. S. Air Feetz has activated its first at benales unit-the 47th Bowls Wing of the 12th Air Fesco at Bachalde Field. The went will be secured with North Assessors 3.45A fewert banders now reliker of the enduction line at Lone Booth, Calif. First USAF group to be

P Acetalia plane to use four Dougles DC-6 temperts on its tame Pacific service. The four planes were enginelly enforced by Scientiservice Air Lines had were directed to Australia for appoint in challen. Australian hearth of de Hardhead has ceden for set of its transcent Doors feeden Same from Teltich asserbalished operation ► Westagbouse has been negotiating with FIAT of Itsh for Itshes per-PROBAL Bookse-Paul Balliof, as advanced type trainer designed for Revel Air Fourse near counted killing two test offsets. The fielded, sowered by a Rolls Rayer Modic, was in competition with a Media powered

Asso Athena for the RAF context. Vertices of both planes powered by the Associate Siddler Moules Indicates retrievable been professed. peoding further engine development. ► Conver's XC-99 on at eighth fight was moved from San Diego, Calif., to the company's B 16 plant at F1 Worth, Tex., where but flights will he consisted. Two more company test fields are scheduled, to be fall lowed by three Air Ferce thinks perce to Air Force accordance of the trans-

► Air Force has pedered five additional Eyes Navion Steam around for delivery to Goose under U. S. ald program. The planer will be added on to the 15th about under onto the National Good and Acres Field Forces. The order she includes upon pure, special tools and proved bandling equipment.

Do you have may idee of the number of people whose lives have been seved by belicostore? We didn't either, until we checked through the records the other day - and the results surprised even us.

As neerly as we can thank, the story begins in January, 1914. A Sikorsky

time of a destroyer emiosion off Sandy Hook, eaving the lives of 70 seamen. Just four months later the Air Force made an "impossible" rescue

made minor. During meneurore by the Nevy in the Caribbana, a belicopter,

News flier. Refere the maneyers were ever that same Sikorsky believeder

operation for the first time from a carrier, neved the life of a downed

had recoved five more men. Or enaing 12 survivors of a class that had

Ye wet another dramatic rescue on 5-51, piloted by one of our own men,

a storm-lesked oil barge aground on Penfield Smef. Comm.

broked winds of non-herevicane force to match two beloless crew sen from

Onswetter over land and see, Silversky belicoptons flows by the Air Force. Navy, Marine Corns, Coast Ogard and civilian pilots have found and rescued named from the wildermann of Newfoundland, the fromes wastes of Lebrodor

and Aleske, the jumples of Nicaregue, a berren desert in California, nountain posks of Chine and the nearby waters of long Island Sound.

By the time we had finished looking through our files, we found that rungod Stiverely belignoters had rescued non, women and children in nearly

And only a few weeks are beligesters were present into service to take medical sid, food and fuel to blisserd winting in the Greet Flains states.

every part of the world, And we don't have a complete record. Hore

coed. Recove sizzione demonstrate just one of their many usce.

stories of this use of these verestile helicopters keen crossing up all the time. To date, at least 200 people have been exced by Sikorsky heliareters - one of the most versatile forms of transportation ever devel-

team flying a Sikorsky B-5.

been formed down in the Philippine See were saved by an Air Force rescue

B-A flew through a blinding anountown corrying blood pleasa to the vic-

behind Jepanese lines drop in a Burna jungle. Two alowen, downed in an

etternt to fly "The Rome", were flown to safety in a Sikorsky E-h. from af other resourt - marr of them note dramatic stories - have been

AF, Congress Act Fast on Radar Net Plan

weight by the Air Force would attenue

Steps taken to start \$160,750,000 warning system on approaches to U.S. and Canada.

\$00 ms warging pulse to train \$100,750, The present described by UKAF + 6. removed packet about the off-shore

Dollar Benddoen - The \$160,750 rided as follows: . For land construction, \$55,500,000. Per electronics contoment, 565,210. . For movel maker product altitus (front),

After hereige Mri. Gen. Goelen F. Swile, commanded record for as do ettick woman maters, a House Armed Scarte by Sen. Milled Todings (D. Mill chappen of the Score Armer

P Seek Screlementsi+USAF will suck the project can be awagastably started. Posters at the \$115 million reported mellion provided for real state and comfor \$7 mellon for packet alone as the AVIATION WEEK, February 21, 2949

Since the proper spendion of an integge compacatel worsing network military-civil effort under direction of than the \$160,750,000 perject But fan, St. Learnet and, "would not for expenditures so great that little would Air Navaration Development Board Defense Chiefs Ask used index nets in that the one new

Cuided Missile Site Canada while the more entenove set would come a major "busine france" marile priving good with a base and of several honded suits, and a nings of Toyor 3000 makes Technical Pobleme-Named took Legalston sufferency the pers has been recommended by a Bosse the descinatories of printing restores. Aggred Services spherometers and in high altitudes, development of suborne Scotte Actual Services Controller accusal to be used as result rather pockets. Highlights of technology and irrests the constrainable suspenses. • Guided Namities of a \$300 mole mone.

Donela Strandor (ADI) gloved down under the left were Donela is probing the such they doe begin fully extended. Main . Strender sesion on a low-level attack plane dev beste is located below the feedings with . for the U.S. All Force in officers to six

AVENTON WIFE February 21, 1942

(Afrecioner)



Cotto Wealt Corp. Freedox W. C. Dr. show on the better of soldier. Eablide des field and Vice Particulate for Engineer covers the 46 years from the Wightinc S. W. Young view the Youn of Philip Durchers ded Sales on 1993 to trading all

shot that is not of the C.W taxofline mad percent time.

area for tenting them, according to Dy Kad Compton, sharmen of the Re-*The "bess ages" of the rapposed \$200 million seniors model mechan hose operators sintings state another membr headons not Bis Con William Reduction reported . The "rease sees" would be strong Part 150 allows sixport sponsors to with observation stations every 93 rudes "ever 3000" mile stratch, Bichardson supert, but spures to all arrest men-Minites with a Shift-only many my new "within the course of womblets," The proposed perving ground would be constructed by the Air Force and

Comment Requested WAA BIII

On Gas, Oil Sale Bill to continue the Office of Wire Assets Administrator and the War sevenes of the regulations afterwaterexpected to get Senate approval and became law before the execution date

WAA more that suplus count de-

Revolutions has been in effort since Chemic until Jene 30, instead of milith-HEADLINE NEWS

ing to Department of Act Poper control. for elements of WAS had considered

Delegates to ICAO Assessed of these West Court on certif factory representatives to repre-

onft Manufacturers Council of AIA at Los Angeles Inna Shiteron, Danebo, G. G. George Copyer; and F. A. Column, Lockhood nown dracture and East on

North American, Navy Check XALI Crash

neuroping youble name of the The VALL coulded not South Man of the year, but there is no adequate. Mor. 5, 1945. Since that time more * Filets Dead-Beth pilots, Al Conever American FJ-1 Mew off during drive created his compe without sonous repay then to a specially occutuated bod of the University of Seethern Altern Fourier division at General Decryaber. He led the couldfore for the m a sounced we first P.35 and now lead faced out on the 19th leo-* Felding Wings-The distant XA) I models leads for the New The place was powered by two Prott & Whiteen son \$33 turbojet engine. It was the correct we seed had folding woughts and

> Nicely American has a New under to build 25 AF-1; for service-testing AVIATION WEEK, February 21, 1949

New Yearbook

men in terms of scholding our port on these condition in the use, coopleyment, plant area, freezes) bealth are tobuleted), it is transport (size of the influenemployed of their planes, and the

published on the Broke rights on one. Only a bound number of eatra copers is being prested. There will be modeble at \$1 curb on a year, ceta causes were sold out within turn marks of publication

Super-show for Super-audience USAF displays latest fighters, hombers to President and Concresumen at House Committee request.

Except for the pers. the show war stratum of U. S. Acr Power conceded to The super show, which had a neutrthese All Frein Base, near Wishout on the father of Air Power in the bus. 30 sidebus to the Propdest and



Unused view get new Statesky Supplies. Code a first large Statesky model web migh Navy XXIII-1 shows allowed point Mades and metal Modes expected eventually to sehaled for rangest starups on stophone. place proposes construction bloke.



EXPERIMENTAL FIVE-PLACES

First field whote of the new experimental, shown liest buildly similar to the opposit, of the experimental free-locus on maker frequent Shooky New XHIS-1 Indicapter New 1907S (complete Shooks model, Two. test of Princent News Air States) AVIATION WEEK, February 22, 1949.

HEADLINE NEWS

Power advocates. It was well based as: F \$2 Two Mostron, Lookhood \$-80 at: eny days its taleoff me the owner wing bowber field 13 \$500-lb 155O ► let Recer-The six of X8-47 also

saturabed the distributioned guests in analytic display by a term of five P-80s of the French Pighter Groen. homber between 600 and 670 multinumber of these latter types yet shawn with observers agreeing at was much The tem Northern YB-49 Physic stiffs display of sid and new agents. Wing beraler impetred Prostest Traprotects of the modern politics acyer day her muliture attaches fator to be Pandent's stab west unless the

hig Weig got off smooth under the SEC Reports Show satorathan rate of clarab Varied Stock Shifts mittion officials durant Describer ng Nucksop F-61 nght fighter, Re-

termon PS6, world's futer orrelate.

tolored the same pattern with the



TRANSCONTINENTAL COPTER TOUR

Concentrated busine of Consolidated of \$5,000 sluces of Convex west on mand Further of 2000 additional was distributed stock to key officials

Mir M. Degle C. G. Cheston, a secont addition to month to being his total holders to

S. Damos, former periodent, humbated 1000 which may have been sold more ► Capital-Group 3. Hous, a director while perchang \$45,000 is Capital engy to they issue to \$351,000, was us the in resemble shares by 600 for a total of

for Lockbeal Assout Corp. in that it danes in Navember, another 1400 abises were sequently in December.

of 1945 Lancortes Corp., an officeted seventment trest of the First York Corn. should 4700 shows in Navember and Notice Side-The seline side sho

Coded Belowers' Hillor 560 model at the Hillor, in, company provident, we see that Goore A Father, a divestor, home shows become before the few's Pule Alin ground Flight over consists of C. L. Wight deted \$400 shows of Berriff schalone transportioned demonstrator field Mesos , shiel too side, and G. E. Tave roles may Hugh Knowlton, a ducator of Eastern





Spread less seld 1800 sharp of Caloual Ashres, ottorng 16,576 at mg 1000. At the same two, Francis

Bendix Annual Report Shows Aviation Gains

1945, pratice engineers too. Feet evilian. Free to the min narrate paid ruded more than 60 percent. Last was

► Total Sales Un-Last year's total sales

AVIATION WEEK, February 21, 1949

\$11,268,742 and was convolent to nonmoted by President Trumos to be tree

House. Design of the Noore or credited to gover and has let better firm 700 killmenton so Aspertica copaco, S Pulococo R is per hors in figig toto. It cories enk a disons. Before tours, profe moreous

Bendix Avieton Care 1946 annual which is encounted to more than \$32 F-84D Modifications

> modification of the Republic F 54D . Reinforced metal slave no verses and . Winterfeed Fact restore · Substitution of a mechanical landers

. History can deck on an end-ing of you olds for one none to make the saxt + Shift of the point take from the ted fix to the rose duct nic divider making · New seasonest, extense heldens gaters and new sales personneline

Kimball Nominated Des A Kenhall of Second York.

Keelnil is executive vice provident of of Alore. Olso Agoust has been a

ANDB Engineers

.1 Water Less, formely with the . Marwell K. Coldstein, farmedy of the

PRODUCTION

Subcontracts B-47 program extended

Foots Best Gest & Mechanic Co. Septemer Tool & Die Co., Cartalay Caro. Auto Markey Co., Healers. with seders totalling Tool & Die Co., Detroe Kellering Co., Star Tool & Die Warks, all of Detroit, agtus Pick, Cakl., Weston Hidrandos. Lid., North Hollywood, Cold., American Machine & Foundry, Euffalo, N. Y.

\$19.5 w.35.... nausced by Romag will go to Bradia Avaiton Core, South Read, Ind., and Reck Island, III; Engreening & Roinclude: \$7,527,336 to Bull Arrents Con. Refide, for power packs, have world and statebarry riceators and for the trie must heading give outs \$1,345,874 to Curtae Weeks New Controllan-Apother 25 fema Airplese division at Columbus, Clais,

have resulter subcontracts totalling for building dorsel and springl feet and General Mills, Inc., Minnespoles Vord. Inc., Pandera, Calif., Pubmay Production Floradorum now has a Streetler USAF letter of spend to shoe the p generally considered to be Sotavac, Inc., Product Engineering & only the beginning of a mable E-C Manufacturing Co., Inc., Associated Co., Inc., and Md-Western, Stori unidedities unition that may thatch Treating & Forgang Co., Inc., all all Walnuts, Valena Taol Co., Dayton, a substantial figure converbed for 31-67 production in the USAN fixed 1950 indeed now under scrattery



Wiches No. 2 plant. Was pgs shown and #50s from Foreign Switch plant

saday anadysation, how moved extense moves by in the bedroomed.

Employment at Bonne-Wichita but with the for major substantibles now depair and B-Sh mediums at the

Stockpile Project

Almost Completed DAYTON-Front to stockade an percentally 40,000 market tool by USAF contactors is approximately (general purpose) for me in emergency indestrial conjument breach, or coron pleasing section of the Air

dustry 2226 marking tools, of which 299 were taken out of the season and the remainder slapped direct to the numeric species from War Assots Addieded between two bare already places of World War II, now good warehouses, at Octaha, and Massetts. struction Pinance Corp. plants doors USAF scound appropriately 10,000

►Tools Agagy-Total number of me chine book, government and agrees 650,000 to 725,000, of which 60,000 were estimated at over 15 years old. Machine tools used in World Way II totalled 1,775,000, of which appear

currenced menulate at World Field offer a strong stranged with sembody Production tooling for the proof wing Streto - receptorly of Stretoy's wine. Maddewise. Arrenal had some lather of World Wie pt bomber (8 47) at under voy at Foreign. Line for 8-2% being recitized from concer-I virture in mothbulk and turned them over to Continence Motors for useful **FNGINEERING**

Flight Refueling Broadens Aircraft Utility

Procedure offers wide benefits in commercial. military operations.

A 1914 cognocous low and a 1924 The law was developed by Louis horset and emblashed the laste at approached clearly the apper limit of this relationship. USAF Clear of Stat. Ges. Novt 5 Venderhoss moretly so social that a study of strendt one on

The 1724 "fixet" was the resident tael transferring quabled Ltm Swith and The 1929 undarrant stood of the Follow "Dueston Mak" of 190 to resented a ware of infecting Fight in 1996 to develop methods and tech-

Sent Sermeda in II worldy inheritate Serve in 1997, and in 16 schedules POAC London-Montreal furble in stare is not for en meto scolmentar en the weelf) long-distance commercial air

has a devided to you an other take of the handless Imp-a 350 ft. storl ceble. length companing a "work link"



Procedure for as Right referding, from ratioal coff produces to contact separation

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**Pier* Context II Made-The Inchesper
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Tight inspirational model prices where the recognition of the control of the cont

FOR "TEST PILOT" STAMINAL



AVIATION WEEK, February 21, 1949

Mobiloil AERO • Approved by every Aircroft Engine Manufacturer! • Surpasses Army-Navy Specificational

Supportes Army-navy specimenisms.

Maded here have been throughly send by registe montaneous, the most stiffactory labelines and expressed less register montaneous, the most stiffactory labelines and expresses to legistrating and extraord operating to securing a memory and a security and a security of the security of



AVIATION WEEK, February 27, 1949



prove marked superiority of GLIDAIR finishes!

Air France, the French National Airline with an outstanding record of 50 years of over-water fiving, recently gave new emphasis to the high performance and endurance qualities of Glidar Finishes. Their letter tells the story . . . "We have selected Gildrig France's as standard print on all our Lockbard Constella-

tion Comess. This decision was reached after tests were made under actual fixing conditions to which Glidest closed world apprintly in other products previously tion even under the most adverse conditions of san, salt speer, pill, gresse, and frequent westings and polishings,"

for your freshing needs, specify Glidaire, the finest aircraft finishes available. They're correctled for develotive adhesion and close perfect for all protec-

tive and decorative applications. THE GLIDDEN COMPANY



AVIATION WELK, February 22, 1949

Arreston Sales Headqueston + 15001 Medican Ave., Cleveland 2, Okio GLIDAIR Aircraft Finishes for every purpose and has readified a treather of Batter

Name & 60 had from \$400 on you Coundcoug the population of theki that the addenoral Course 3-16

P Bomber Use-There are a number of

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tages of flight refucing her as the shipty of the burgles to choose any con-Another breatle of horsher Wole or.

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Mk-Wonthor Blades

Lice Laminated Plastic

The property up of photon in an end stratery application is typifed new all weather belocater blader built

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Material boading is accomplehed with a thermostflur adhesive, ender of the blade section. It offers the soscatters of alleading practically the world and manager weather in Mindsian Bindian-Revers of himinduces in montable short year and in the

mission with his wide, \$50-in alsmanual borded to the series of the At I in back from the trailing relie.

Titanium Groomed For Future Aero Role

Metal possesses many characteristics desirable for aircraft applications. Alloving studies are under way, Discussed on bitures has been foun, and they develop no struck. meaned to allow a base temperature and r way concernantally at the Naval Art Matauel Center, Flerindelphrabe perioded from time to time at neces-

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CEEPING AHEAD WITH CRAFT INSTRUMENTS The Case of the Oversize Taci. Considerant Considers ... He was ned for lates, wealth to have

He best is olways looking about for improved desons. He speci cell for the new G-Etochometer system passis compact and orderly-without socificing rend-



PLAN TODAY FOR TOMORROW'S INSTRUMENTS

and wide temperature variations, And, despite the re-

recovery, lane life, and relability as characteristic

store today can be in your sincreft tomorrow. The



malable from do Post or a power from culled "wangs" but will save be had alrest 55 per round but the si mently a Free semples of threaten monge are Bestee of Mascr is supplying perner going d out of bitement toback loads. Bureau of Mean is studying vacous

Twist Detector Aids

Torquemeter Studies

To furlitite the development of

The divers currents of a Lon. steel



"Rotochute" Lands Instruments

In effect, the device-kerren as a ing power delivered by peopellary and match 4 ft long, the body short 5 m. terbriets. Westurbour Detrie Corp's in discretic It is fined with a longed remarks inhomenous have brought aut a rotte which extends about 5 ft when new twee detector which shows chooses. July opened At the peth of the rocket's flows the solvehole in engelled, and so fee on persons in dealth future depend, the

dropped from a B-29 at 35,000 ft., from type of device, accombing to D. E. Investment the setachate is 1-B Bea-

Resultant hukess action slows the CADO to Process Additional Documents

Control Air Documents Office for received more than 700,000 additional Documents Diveron of CADO The additional stoorts are part of the original 1900 term of marketed con-

4 or 1 the \$5,000 reports sleenly record interested groups

Monable, the senseere 1200 rees

shied physical fields Air Force does not plan to process the material as completely as the reci-



Test-Engine Economy White affording results which over

Aircost Fire-Fisher

4500 To of low sureage reduce difficult match, 13,800 Ib with fell lend, his



ALL USE BRIDGEPORT UPHOLSTERY FABRICS

The Medium Sized Ones...

. . . because they are easier to maintain, easier to install and are longer societies than other already unholstery fabrics. What's more, the original designs of Bridgescort Unbolstery Salaries are smartly conceived in the most pleasing colors to harmonize with year faterior orbane. Drillermost falsoire one cufor

they do not support combustion. Write today for complete details and sample swatches of UnbolatoryFalories-they are available in a variety weares or can be supplied charios use







NEW AVIATION PRODUCTS

Supercharger Holds Up in Tests Problems being overcome through extensive testing of

Stratos Corp. device: airline installations expected. the States Com. Farmandale, Lour bland, N.Y., has been operative soulty la Fig. a year in the low second base. of cashingctions, according to retine forled frequently. A harder gray is light in nearly and meaning directly

on so engine drive pad, from obviating duced acceptable afforded to the now of mobile differential cohies never Only sweatcast peobless have been domestic realises is contempleting in



Solesaid-schuted air control unit built by Bellows Co., 222 W. Market expending air theory to discusse heat.

Same Production-Line Time Availability of new true goet de assed convent for application where back tomple loads are not a factor, in exponent by Cherry Rivet Co.

restallation, sharp, expends to store in

reported to compare favorably in strength to solid rivets of some material rarme for slight induction in strength when used in this sheets. For lawfer, 165T Starm on 175T Speed of or



Na-Recoil" Hammer cookert, chape or don't Wester or oil to the ne line is classed not to office Screte tree, made by Duke Industries fashour. Device is adjusted to direct connective or remote compail of stendard or sylvador. Switches for agenting may be shared either to be leword, charge follows, practically classaring because send. This is shelic his eithered heav induct

For Aircraft Interiors Departure thermal and someten mealstion has been developed by Jason Corp., Heboken, N. J., for severalt an termina. Marwayl is utatables, guilled undwith of also fibers between Vital

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FINANCIAL

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Proding are further sevaness icongo-

To Aid in Study

TWA Seeking More Vital Role Analysis of financial status on eve of stock issue secs necessity for recasting of capital structure.

incomed by highly hotable to- of money, all at the expense or unusual As as proceeding with a public stock Stockholden will receive the right to asternia is one new share of communiduring or about 74 propert of TWA's short 55 mellou sa additional funds Score, in the offering of 464,112 sheets of TWA above PTenelod Finances-The TWA stern

the Life Assessor Society of the 542 mallion in debt with bee a small The hull of the Equitable loss on spending losses. A larger equally have refine operations, has led to recurrent fluenced come for TWA. * Absentives-that for Equitable Insu

web of the company's frames resulting

from past of concerned palents. Most of this expension by less with the Saust-

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AVIATION WEEK, February 21, 1949

cutters constitute and feature mobilization of civilian ay more. port in writing his been annomed by the Department of on within the transportation di Commerce will sai the Comraine markets of 1945 TWA would to review \$4 miles. The common

th cort of the jedintrial mobilistion planning responsibilities of 550,000 in Sense A debenture, out standard as of Feb. 1, 1949 sugget new operated. This is "dependent upon the applicable of a second

sinking hand parametri. At present, \$1

subsequent and the shifty to finance ►Key Avenue-It is likely that new second fearency, recreating for the subsciention of the Equiple competitive position, TWA ment in consection on Aug. 24, 1948, of the notes and extent by Hurber, at \$10

P Ved Bole-There or lette consiste. mest in encurtain and compation of

AVIATION WEEK, February 21, 2965

SALES & SERVICE



Morrisey "Nifty" Undergoes Tests Performance figures and other details given on new low-wine trainer; price tentatively set at \$2695.

trants, desired to accommodate any Confinential engine from 65 to 90 kg., the putch, he states, is effected with the Marrory Nifty has consolered residence for of 23 O of Stale man of most than 100 he of their test of Low-Flore was book by Moreney Americk essent tot plot and former CAA Medication Insuble-Morney has Frage-Polymunce with the C-00 cognic most secretly substited, reckelled in the CAA atter extensive but it one he seeks modified to be made clay Adventuges of live-weep and traceds 106 mph with less pitch propeller

one makes turns the nine of month may The Netty is recented as stalking of to each and the stell is described as then at lower speeds. Plut can see the



SALES & SERVICE

Promise Enlfilled

broken folds to and from an cutting ages the most record parts of the state The Solds are located at Booders, fron right west of the pursuit in Second and Stevent Proc. Elevations mage from 906 ft or Skylometh to 2170 ft. at

The monors are 200 and 100 ft wide. 2073 to 2400 ft long Bardens and Letter have no additional turbol plane marketer many of 15,000 on. It much All and indicator. All you half with CAA sid All except Lester we loosted Before construction of the Skykowsky and Marrie Court fields the flow man termin without a single arrest facility. Cours of the felch were held to a order bes offers revers brespen

Light Signals Revised Revision of sispert percible traffic

 Study green on ground "desc in-tile of" in fight "eleved to lead" Pleables stone on round "dured to ton" In Fight "serson for hedding" (to be followed by steady green at peoper · Steely sed; on ground "atou" in fight "gove may to other second; and Finding out on except "too rive of heading sees (numeral to use " In Sight . Fleshow white on return Corbers to startion paint on street." · Afterniting and sed green repend

RDIEGING EAR DEALERS & DISTRIBUTARS

and expense of training when and mechanics at culture have and at civiling schools is now under way with proof expected to be recoved by INAF by the end of May. They as for recombing to comme circling if needed, restating typical large schools which toward codes under contact in World War II and youll schools. Some risches whood operation have restruded before the Air Police Companion and elevelory, that define wheel solet transper is upperfec to sed more communical these cadet training offered as USAF schools. Record of civilian school training in World War II is outed in support of this controtion If report been this out and USAF accepts it, there is acceptate of a hand for rivilian toking schools in new USAF tokining contracts.

RESEARCH FLANES-CAA months declared at has bound two atplines to non-croft conequitors for experimental corporat, a Figer Can trainer to the Asymptotic Research Poundation on Boston for its Franchises, New York, Str. a street of hebitaline facts street, archives. vania Accounter Commission's enforcement program agreed low and wealthen finder wave off in greatly in shown in the 1945 sucklest report forwarded by E81 Anderson, state seven-state discusse,

Signess, those 240 to 153. Similar or greater mountained in account point of entrapirity separated decrease of 14.5 persons on all little accounts, decrease in total grupher of persons killed to fatal scrideres, 31,55 percent. Violation reports showed a comparable decrease of 12 percent for all violations and a protection of \$1.7 represent to less and problem finises DISTRIBUTORS NAMED-Rose Assessment Co. his recently resourced appearance of Bellolo (N Y) Assessment Cop., headed by Paul W. Eberle, on databases for the Ross Novem, in Western New York Western Michigan and States Michigan appropriate

NORTHWEST MERCER-Benkendt distributes for Weblerton Occuping and Alaska layer mested their these community into a new flow. Cons. F. 10m; soft head the new paramation, Pacific Alacust Sales Co., Scattle, whose cheel, Walls Times, well beed up sales for the new combination; and Harry E. Coffey, Portland, boad of Harry E. Coffey & Assaristes, which has had the Breach Abelia differentiation. How will

Each operates attending is soled to being along the editor of his local recommer for rabble educated day, the first day at the assiste. Bull News Haddeny, other rad nubbelet of Southern Flinks, set on-charges at the courter which but your attented own Till country and other to take up. CAA Administrator Del Revisel, AOPA Missiser L.B. Hartunit [r, and other CAA and CAS officials will go out form West--ALEXANDER MASURILY

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Exertisations of the above rachales

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Proof to both with the COS morns

with a Coetingstal A-65 engine in space thus 40 ke of fight is which Mostley determined that the plane "more than

adequately met CAA true entification

power" Geest weight for A-65 model

height, 6 ft, 10 rs, wheel treat, 134 so

Plane is solved from front seet A 15 ml gravity feed fuel tank in "Give us the tools . . . "

McGraw-Hill Surveys BUSINESS NEEDS

If it can not the maney American industry in 1929. of Improving its Indiffice, This program since V-J. Day has been besieves exceeding and has made be-Furthermore, if it can set the maner American in-

Austra will come on for the part fee years with its approachated program of expenditure for new plant. and equipment. Plans already made call for spending shout \$55 Nillon. Those are findings of the McCross-Mit nurined car-

In 1999, the savery shows, American industry plans

Even more remarkable than the 1949 eroseest is the behalfer abready place to spend \$41 billion in the years 1950-53 to improve its plants and equipment.

Agen, let there be no musuke. These survey deduces

But - next industry for supherry with plants and Here are some of the revices who not that were dis-They have increased their social capacity 56% more they pive is spend three-parries of they funds to replace

1949 represent about 7.5% of the account value of all pleat and equipment. That rate of eartid expenditure is ne haher than the rate during pronous periods of pres-Then, industry a following an extremely continue policy in buying new Hospered. Three out of four companies report that they will not years. And a third of the companies report this they

The neverse of equity) expenditure of speed by Asserion industry is one of the greatest burgains ever

offered to the American people,

WHAT THE SURVEY SHOWS

O Many and The Markon Princeton of McGraw-Halls curvey of "Banneed Needs for New Places and Econand equipment. They do not forecast what will actually be spect. The narray shows

 Debating new place to speed \$1015 billion of \$100 - and singuit \$41 bulloon in the first pilot beyond, 1930-32 facilies. Manufactures plus to device about three seasons of the fanous responsibility measure to 1940 500 writes current educate this way. Manufacturing underlying three pitch to speed \$12.50 feet at 1997. These \$155 of the estimated value. See history, of the property confidence. blandaguare camera processery that a would are \$135 billion to completely applicable for fundam with the most mothers plants and expension are district.

A Proper replaced a violatily complete in most make frequency form. Many transport and and polytope 5. Expending progress of reducate utilities and oil com-

6 Muscharuring industries have represent their process 30% more 15.00. Aux extraorer in slowing driven leaves planned in the sent five price in only 10%. D. A year of a complete reserve on "Business' Needs for New Plants and Euterpoorer" may be obtained by

- largely profits - to pay for new plant and equipment Only 5% of the companies expect to sell stock to in-

The nesser will come from Worksagton - m what richots of American who must even a curt of their Still another ampering part of the server will be given

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u done in Winkinston, to tru Stree of the Union message. It is not possible to have it both ways Pullkhams of order to have a little more progressest toesdoor today. I name you to one that your Depressionation and year

plant and contourers. What they do in this approve

will have a decisive beating on the nation's secreta-

The McGross-Hill resource leaves no dealer than Associa-

AIR TRANSPORT

Airlines Turn to Senate for Aid Committee plans hearing in March, calls "healthy"

airline operations essential; puts off nonskeds. Publicu-burgered scheduled and early opposed by the Rules Consulter noncholated on carners on locking to a opported Symmetric by Melecon, the vaplation conclusion that "water beitly franced condition a indiand natures, but morehods remained Flasg Range Schaller Socials-It then Financial Troubles to be April Pine connective and responsible term be encyant that general levels of beamen

The accolution cells for a "long-way page (D. Wigh) and Haser Carewhites" which would been the siching Jahrana communited to Assarates

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NEW APPROACH LIGHT STANDARD Named annufactors for the manufactors, valual manufactors sould be be base on a problem indicates that he endower CAP's of the new stone line namedy hold audients 14 St. reporting her and word to letter now which will be standard for all military emulsionemby dedicited beaut must be and got auticity have been drawn up by the mountail to allow a shelt on their vertical Coal Assessment Afrancianton, Indeeded made between 5 and 20 day. The light lets morehhor will be built to focus a 45 morehly ment mornie misdestorie at alle. dos, angle with the ground on both sides of trade up to 10,000 fit: tourneadors from

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John Southmen (D. Als is Feter Kefer ver (D. Teen), Zoles Estan (R. Month Gay Officte (D. Vest), Rev. Marroy Edgas (D., W. Va.), James Marroy (D. Most), Claude Proper D. Fu l. William Lower (R. N. D.) Aution Defeard-Register to the petition, lebrace declared to make any completed on the CAR-proposal pure view of inspute certion operating suthermotion. However, before the tion, Johnson said he would arreste a Recognitions of the National In-

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The FIDO uniton is the first of five stelled at I. A. Somest this seur. Dur the the course and suppose the terrainal

laste lackstep ile strong to May The Cars. New York. AVIATION WEEK, Fabrager 21, 2949 AVIATION WEEK, February 21, 1949

ATA Assails Forwarder Tactics

Asks new economic restrictions; cites difficulty of policing irregular operators in freight field.

The certificated sictions are still at alloss of the certificated current or more P. Pictorier, Lambridge, S.E.A. sected (fact of a Konporary victory over the formandon would be over more difficult for CAB let Nov 15 when you U S Cleans Court of Appenie in Chemes drived court is Appear in Carrier Service however, the court not unde its stay order Obstance Wees, Feb. 75, and now the regular radings have assed CAB to expose assures on the for posted abstraceurs; and published

P.Lentstone South-The Ar Trueand the to the Board in its effects to by forwarden and angular curren," ATA possited out "The shappen will companies such as Sick Armys and nouse Regulations. As side: notices, subbit sizes it will be couple for them

ATA sed that ferrosides could obfemously sucht are two other noncurson which redwidenly openie were

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BIG ALL-WOOD BANGAR GOES UP IN BRAZEL

FEAL, our of Eurif's Introduction ats, horses in South America" in successes has, a complete a hasse of Company 227 x 140, memorie beint is just over arrort of Sec Pauls. Company describes 15 lest, total one is about \$100,000 REAL.

ANTATION WEEK February 27 1949

therity to cost they set questioning to court stress profestly beyond the Good Chance of Profit If the person seeking judicial deseriod a neith familial and the coming anthony is to not it some portion pany stands a good chance of showing a profit or 1943, seconding to W. L. McMiller, except a secretary and smitmeeting in Prondence, R 1, mounts

American and the lowest rate a direct person man chance for a 1000/h. show

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American befores deposition of pickur attend traffic could bound about the cond manage conditions loceanier troifs have been filed with CAB and cent appear to quote rates Nelton the mentional minimum leads

But it adds there is no summer that perhaps at some later date, such CAR has insued better of accompanyou to five ferwarders Sistem other applications per revol.

THE NATIONAL SCREW & MEG. CO.

National Screw & Affe. Co. of Cal. 3421 So. Garfield Ave., Los Angeles 22, Cel.

TRANSPORT

AVIATION WEEK Prinning 21, 1909

Vational AIRCRAFT FASTENERS

Rived quality control from raw material to fauthed product has won the confidence of the

svistion industry in National Asseraft Fasteners. We manufacture the most complete fine-Bolts, Nats, Screws and Pans-in a full range of sixes and leverby, to aircraft standards. Also servial aircraft famoures to specification.

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► Coon Laure Cited-McMiller at

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NeMbles pointed out that most aggres-

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1946 to 74 accord to 1947 wai All America's personnel per 18,000

* Prooffer Cults

· Short Metal

LET US DOOW YOUR REQUIREMENTS

• Costs

CAB proposes to great WCA a hosp-Tab 24, 1945, when sensor buyon,

More Mail Pay



Heated Air De-Icins

Curtiss-Wrinks

nobable will still be shown for 1966. pending orbible/opent of a permanent Load factor on WEN's Lookheed proved by November, Like several

Family Factor

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POA Contract

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AVIATION WEEK Edward 21, 4660

SHORTLINES

P. British South Assessor Aircra-

Yest and Dalles via intermediate

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► Passagon-Has reduced the rate on its. Settle as much at 39 percent below pres-

CAB SCHEDULE

Night cel fights between Known New Horizonta in Nach



Poseer-Proplet Rebert | Smith

MCA Request





TECHNICIANS Unious approximation ownth you in the year and challenging field of satherine of

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MANAGER RYAN DISTRIBUTOR

POSITIONS WANTED Linear Sat in solvent Sym Forton Participant position, fixed referr shall nonnot perioden Appointment

SAUE \$ 116 0.0 ON Firestone AIRCRAFT ACCESSORIES THE EAMOUS HARVEY-WELLS TRANSCEIVER Was \$159.95 NOW \$4350

LIMITED QUANTITY 110 Volt Aircraft Becaises \$4450

GENERATORS

STARTERS

Cought, Private office, county proper for health proper for the county of the proper county to be a proper to b

TALK WITH THE TOWER At your dealers as order direct. Cook with order as C. O. D. andy. Ourspec.

GENERAL AVIATION SUPPLY CO., LAMBERT FIELD, ST. LOUIS 21, MISSOURI

the steward donis RELAYS-revene current R-1830-92 Conversion . . .

REFCHCRAFT C185

BUTLER COMPANY Makin Short Chings &. WHERE

Periting Light Blacker CLASH-RIKE gloss you like solded · SAA feure · Lines William of for \$3 Febr. anit/ I stores Photo butte policing . Energy leadering

TERM CHEMICINAL & Mrs. Co., IN Automatic Macking Computation

AVIATION WEEK, February 21, 1600

EVERY WEEK

ber estanden el mora Gan. \$4,000

STRICTLY PERSONAL

HIGH FLYING LODGE BROTHERS-My Sheeden mys Sada die Stewarker

ONE-POESEPOWER CORU-LaMette T, Cohe, Conege's const, war in full cowboy agains but doesn to one horsesomer when he rade to the saddle on the gried cetty at Fort Worth's famed Southwestern Exposition and stack show codes the other day, according to belies Star, any short Daller representation.

THE THENDEST PROT IDENTIFIED-Ken Willed sketche the Temble Tempered Pilot maned los, mentioned here Feb 7, as los Hanner.

ODLUM, THE ACE-As Avances Were obtor in Westerdor sinds as an which lists eachts at a recent function. The Atlas Corp. and Convar financial wiged a storated as "Fleyd Odkes, propertiest civilian syster". We'll went

THE MAIL BAG-A new residuet suprouncement deserves proving slone to ou arises equipment buyer who are looking for new holles godgets so Connes, DCGs, and Corners. Mr. Sarved Melson of Dalasco Products Mis. Co. Chicare, sobs "We see in a position to make associate deliverer on our new product, the High Ray Bit Day States and Roy Warrer Combination. Engineed you will find a shirts of Our goal also haves one of the wondow of the Korlish-negative world. The stard and souther, very preferanceal weakly prox bulletin at the Secrety of Bellah bear a polet see, "My fire is need And They Markley of Alah Research Airmit Council sales on to shot the Florer Commission at now. He write: "Who uses their ain't no consults in Josh Lee, CAS member, sends us an autographed copy of his new book, "The Bottle of Coenas & Other Spides Shreet," not published

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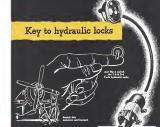
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